## **AMENDMENTS TO THE SPECIFICATION:**

Please replace paragraph [0010] with the following rewritten paragraph:

- 1 [0010] In Figure 2, an and input signal 100 is applied to three amplifiers 102
- 2 each having a different gain to produce output signals **104**. The output of the
- amplifiers is shown graphed over the input range **106** of the A/D converter **108**.
- 4 Depending on the gain, the amplified signals may exceed the upper or lower limit
- of the input range **106** of the A/D converter. Each of the amplified output signals
- 6 104 is applied to the input of the A/D converter 108. The A/D converter
- 7 produces a group of data points **110** for each of the amplifier output signals.
- 8 Each group of data points is analyzed in a comparison element 112, for example
- 9 in a suitably programmed digital microprocessor or microcontroller circuit. The
- group of data points that has the highest gain amplifier and no saturation points
- is used for determining the current used in the system.

## IN THE TITLE:

Please replace the Title, with the following substitute Title:

ELECTRICITY METER WITH MULTIPLE GAIN SIGNALS TO AN A/D CONVERTER